What is claimed is:

- 1 1. A method of transmitting information from a first device to a second
- 2 device, comprising:
- receiving a user input at the first device;
- determining a class to which the user input belongs;
- identifying one of a plurality of sets of information which is associated with
- 6 the class;
- 7 looking up at least one datum in the identified set of information; and
- 8 transmitting the datum.
- 1 2. The method of Claim 1, wherein the information is control information, and
- the datum is a control code.
- 1 3. The method of Claim 1, further comprising determining if a programmed
- 2 association feature is active.
- 1 4. The method of Claim 3, wherein receiving the user input comprises
- 2 recognizing a button press.
- 1 5. The method of Claim 4, wherein the first device is a remote control unit.

- 1 6. The method of Claim 1, wherein the second device is selected from the
- group consisting of televisions, set-top boxes, compact disc players, digital
- 3 versatile disk players, tuners, radio receivers, and satellite receivers.
- 7. The method of Claim 1, wherein the second device is a remotely
- 2 controllable entertainment device.
- 1 8. The method of Claim 7, wherein transmitting comprises generating an
- 2 infrared signal.
- 1 9. The method of Claim 1, wherein the information is control information; the
- datum is a control code; receiving the user input comprises recognizing a button
- press; the first device is a remote control unit; the second device is a remotely
- 4 controllable entertainment device; and further comprising determining if a
- 5 programmed association feature is active.
- 1 10. The method of Claim 1, wherein the information is control information; the
- datum is a control code; receiving the user input comprises recognizing a voice
- 3 command; the first device is a remote control unit; the second device is a
- 4 remotely controllable entertainment device; and further comprising determining if
- 5 a programmed association feature is active.
- 1 11. A method, comprising:

- 2 receiving a command to enter a programming mode;
- receiving a first one of a first set of user inputs, the first set of user inputs
- 4 defining a plurality of devices; and
- receiving a second one of a second set of user inputs, the second set of
- 6 user inputs defining commands.
- 1 12. The method of Claim 11, wherein receiving the command to enter the
- 2 programming mode comprises processing signals which are received by a
- 3 universal remote control unit.
- 1 13. The method of Claim 12, wherein receiving the first one of the first set of
- 2 user inputs comprises detecting a button press on a universal remote control
- unit, and further comprising classifying the first one of the first set of user inputs.
- 1 14. The method of Claim 13, wherein detecting the button press comprises
- 2 generating at least one signal representative of the button which is pressed.
- 1 15. The method of Claim 14, wherein classifying comprises determining a
- function class associated with the button which is pressed based, at least in part,
- on the at least one signal representative of the button which is pressed.
- 1 16. A method, comprising:
- 2 receiving a user input;

- generating a classification code based, at least in part, on the user input;
- 4 accessing a first control code based, at least in part, on the user input and
- the classification code, the first control code stored in a memory; and
- 6 transmitting the first control code.
- 1 17. The method of Claim 16, wherein generating the classification code
- 2 comprises a table-lookup operation.
- 1 18. The method of Claim 16, wherein accessing the first control code
- 2 comprises generating a memory address and reading out the contents of a
- 3 memory location.
- 1 19. The method of Claim 18, further comprising accessing a second control
- 2 code based, at least in part, on the user input and the classification code.
- 1 20. The method of Claim 16, wherein transmitting the first control code
- 2 comprises converting the control code to infra-red signals.
- 1 21. The method of Claim 16, wherein receiving the user input comprises
- detecting a button press and generating one or more electrical signals
- 3 representative of the button press.

- 1 22. The method of Claim 16, wherein receiving the user input comprises
- detecting a button press and generating one or more electrical signals
- 3 representative of the button press; generating the classification code comprises a
- 4 table-lookup operation; accessing the first control code comprises generating a
- 5 memory address and reading out the contents of a memory location; and
- 6 transmitting the first control code comprises converting the control code to infra-
- 7 red signals.
- 1 23. The method of Claim 24, wherein accessing the first control code
- 2 comprises accessing data from a table based at least in part on the classification
- 3 code, wherein data in the table represents a programmed association between a
- 4 classification code and a target device.
- 1 25. A remote control unit, comprising:
- 2 a user input signal source;
- a classifier coupled to the user input signal source;
- an address generator coupled to receive input from the user input signal
- 5 source and the classifier;
- a control code memory coupled to receive input from the address
- 7 generator; and
- a transmitter coupled to receive input from the control code memory.

- 1 26. The remote control unit of Claim 25, wherein the user input signal source
- 2 comprises a keypad.
- 1 27. The remote control unit of Claim 25, wherein the classifier comprises a
- 2 means for generating a classification code based on one or more signals
- received from the user input signal source.
- 1 28. The remote control unit of Claim 25, wherein the address generator
- 2 comprises a means for generating a memory address as a function of signals
- received from the user input signal source and from a target lookup table.
- 1 29. The remote control unit of Claim 25, wherein the classifier comprises a
- 2 processor and software code which is stored within the remote control unit.
- 1 30. The remote control unit of Claim 25, wherein the user input signal source
- 2 comprises a voice recognition module.
- 1 31. An article of manufacture, comprising a machine readable medium upon
- which is included instructions which when processed by the machine will cause
- the machine to receive a user input; determine a class to which the user input
- 4 belongs; identify one of a plurality of sets of information which is associated with
- 5 the class; look up at least one datum in the identified set of information; and
- 6 transmit the datum.

- 1 32. The article of Claim 31, further including instructions which when
- 2 processed by the machine will cause the machine to determine if a programmed
- 3 association feature is active.
- 1 33. The article of Claim 32, wherein the information is control information, and
- the datum is a control code .
- 1 34. The article of Claim 31, wherein transmitting the datum comprises
- 2 generating an infrared signal.
- 1 35. The article of Claim 31, wherein receiving the user input comprises
- 2 recognizing a voice command.